

# NAD SERVICE MANUAL

**1240**  
STEREO PREAMPLIFIER

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-1240-

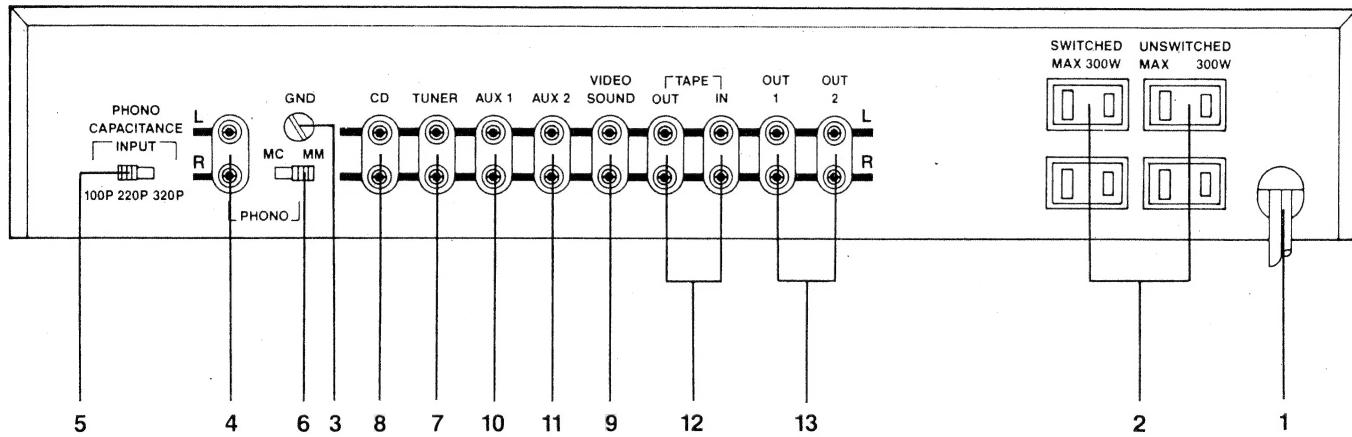
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## REAR PANEL

1. AC Line Cord.
2. AC Outlets (not in U.K. version).
3. Phono Ground.
4. Phono Input.
5. Phono Capacitance.
6. MM/MC Selector.
7. Tuner Input.
8. CD Input.
9. Video Sound Input.
10. Auxiliary 1 Input.
11. Auxiliary 2 Input.
12. Tape Input/Output.
13. Preampl Outputs (2).

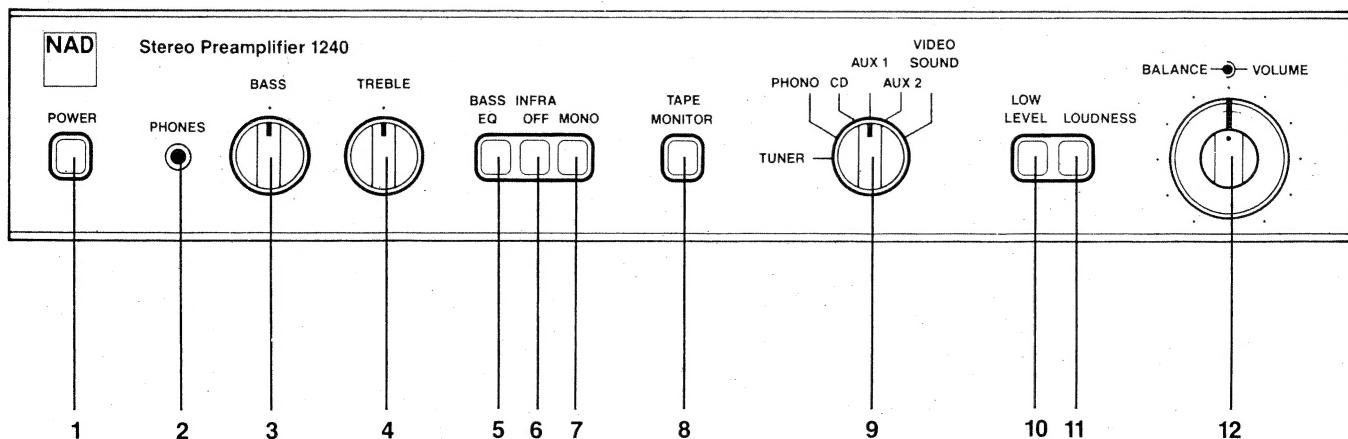
**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

CAUTION: TO REDUCE  
THE RISK OF ELECTRIC  
SHOCK, DO NOT REMOVE  
COVER OR BACK.  
NO USER-SERVICEABLE  
PARTS INSIDE. REFER  
SERVICING TO QUALIFIED  
SERVICE PERSONNEL



## FRONT PANEL

1. Power.
2. Phones.
3. Bass.
4. Treble.
5. Bass EQ.
6. Infrasonic Filter Off.
7. Mono.
8. Tape Monitor.
9. Input Selector.
10. Low Level.
11. Loudness.
12. Volume/Balance.



## Specifications

### NAD 1240 Stereo PreAmplifier

Note: Specifications are measured in accordance with EIA Standard RS-490 (IHF A-202). Measurements referred to the Normal output. Output level are 13 dB higher at the High output; for this output, divide the normal input sensitivity by 4.6.

#### Phono Input

Input Impedance (MM or MC)

R=47 Kohm  
C=100/226/320 pF

#### Input Sensitivity

(1 KHz, 0.5V out)

MM 1.5 mV  
MC 100uV

#### Input Overload at

20Hz/1KHz/20KHz

MM 20/180/1500 mV  
MC 1.5/13/110 mV

#### Signal/Noise ratio,

IHF A-weighted, with  
cartridge connected

MM 85 dB re 5 mV  
MC 75 dB re 0.5 mV

#### THD (20Hz-20KHz) and

IM Distortion at +30 dB level

<0.04 %

RIAA response accurate

±0.5 dB

#### Line Level Inputs (Tuner, Type, CD, Video)

Input Impedance

R=15 Kohm  
C=100 pF

Input Sensitivity (0.5V out)

90 mV

Maximum Input Signal

>10 V

THD

0.01 %

Signal/Noise ratio, A-weighted

96 dB re 0.5V out

Frequency Response

20Hz-20KHz ±0.5 dB

#### Outputs

Output Impedance

Tape (REC)	Source Z + 1000 ohms
Normal	800 ohm
High	150 ohm
Phones	100 ohm (will drive all headphone impedances)
Maximum Output Level	9 V
	9 V
Tape (REC)	13V into 50 Kohm load
Normal	9V into 600 ohm
High/Phones	300mV into 8 ohm

#### Controls

Treble

±7 dB at 10 kHz

Bass

±9.5 dB at 50 Hz

Bass Equalization

±2 dB at 70 Hz,

±5 dB at 40 Hz

Infrasonic Filter

-3 dB at 9 Hz, 12 dB/octave

Low Level (audio muting)

-20 dB ±1 dB

#### Physical Specifications

Width x Height x Depth

42cm.x 7.62cm.x 26cm.

6.5in.x 3in.x 10.25in.

4.25kg (9lb. 6oz.)

4.7 kg (10lb. 5oz.)

50/60 Hz at 110, 120,

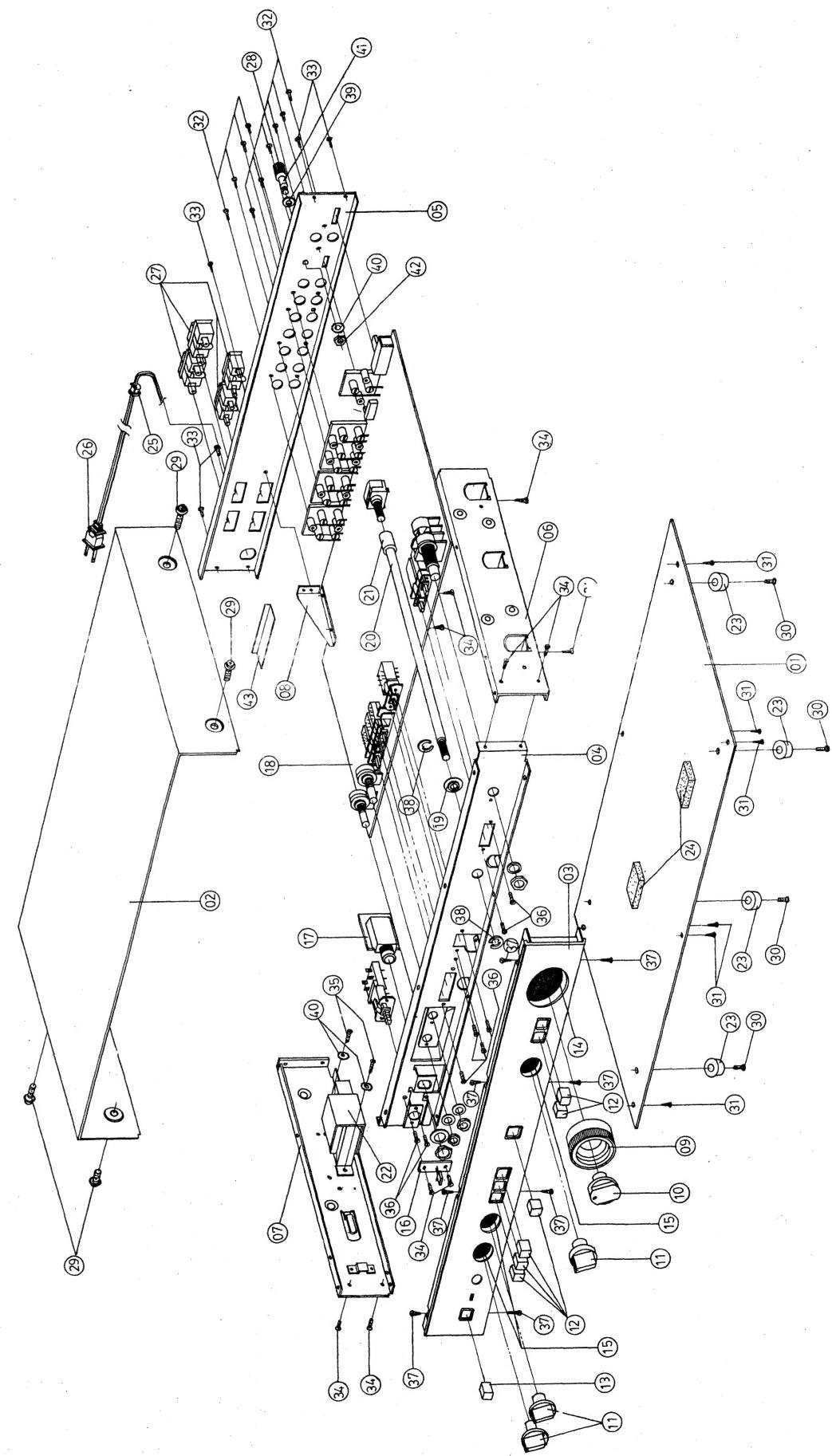
20, or 240 VAC

17 W

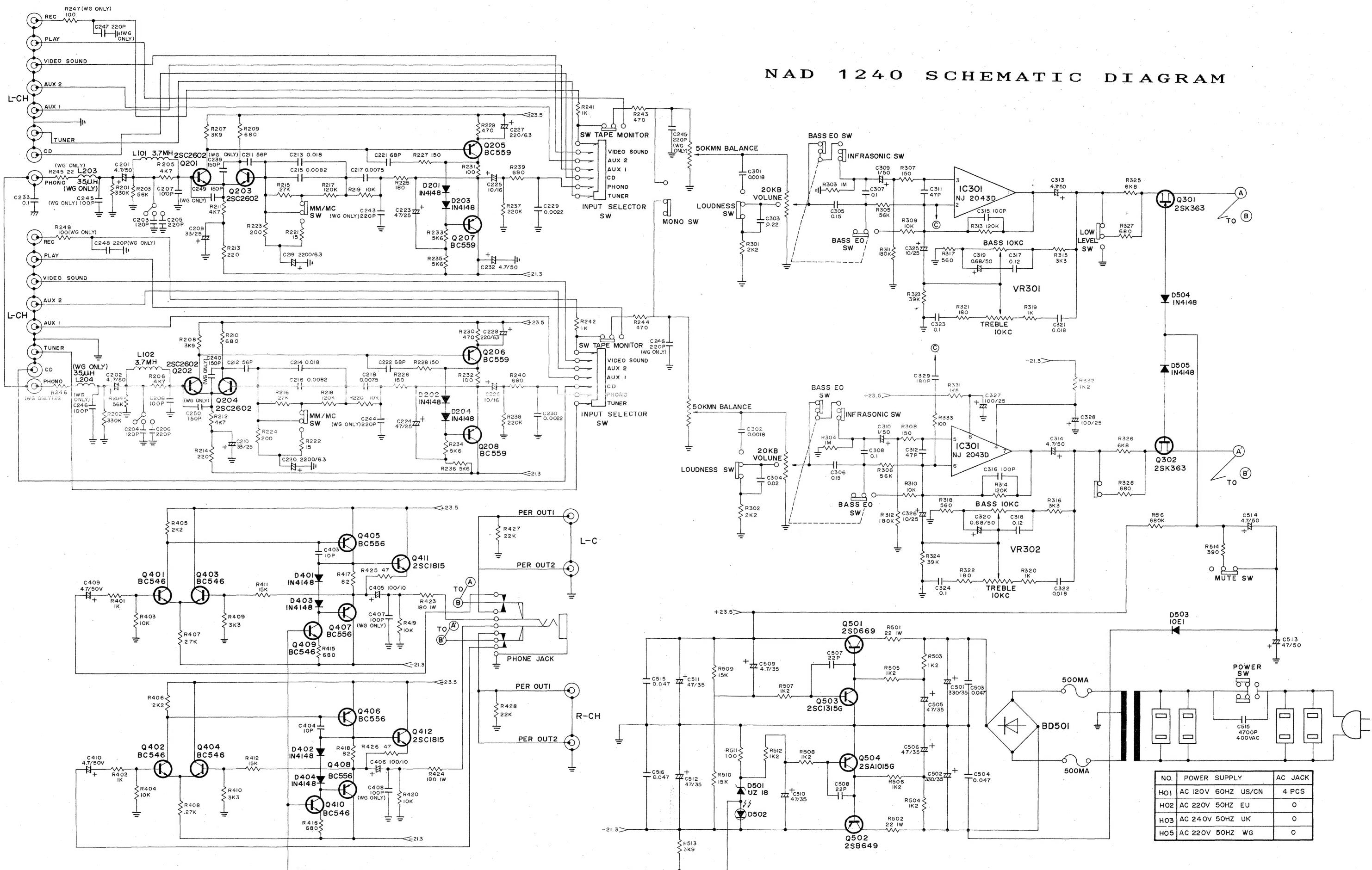
### EXPLODED LIST

ITEM, PARTS NUMBER	DESCRIPTION	SPECIALITY	Q'TY
1 L580B004H01	CABINET-BOTTOM		1
2 L561B006H01	CABINET		1
3 L702A016H02	PANEL-FRONT		1
4 L547B009H01	CHASSIS FRONT SUB		1
5 L582B003H05	COVER-BACK		1
6 L547B008H01	FRAME (R)		1
7 L547B007H01	FRAME (L)		1
8 L541D089H01	BRACK, PCB SUPPORT		1
9 L704D062H01	KNOB-VOLUME		1
10 L704D065H01	KNOB-BALANCE		1
11 L704D064H01	KNOB-ROTTARY		3
12 L704D061H01	KNOB-PUSH		6
13 L704D061H02	KNOB-POWER		1
14 L550D037H02	FELT RING		1
15 L550D037H01	FELT RING		3
16 L241A066H13	PCB-MAIN	LED	1
17 L241A066H12	PCB-MAIN	HEADPHONE	1
18 L241A066H01	PCB-MAIN	(PRE AMP)	1
19 L550D036H01	GUIDE SHAFT		1
20 L531D017H02	SHAFT ROTARY		1
21 L562D022H01	SLEEVE, INPUT SELECTOR SW		1
22 L350Y078H01	TRANS-POWER	A2	1
22 L350Y049H01	TRANS-POWER	A1	1
22 L350Y050H01	TRANS-POWER	A	1
22 L350Y051H01	TRANS-POWER	B, B1	1
22 L350Y052H01	TRANS-POWER	C1, C, C2	1
22 L350Y053H01	TRANS-POWER	C3	1
23 L771D006H01	FOOT RUBBER, 12-1543		4
24 L552D015H01	CUSHION SPONGE		2
25 L540D501H01	CLAMPER		1
26 L242Y501H01	POWER-CORD	A1, A	1
26 U242C872H06	POWER-CORD	B	1
26 U242C809H19	POWER-CORD	C2, C1, C	1
26 L242Y013H01	POWER-CORD	B1	1
26 L242C310H01	POWER-CORD	C3	1
27 L449Y002H02	AC SOCKET		4
28 L531D018H01	SHAFTT-GND, 3020		1
29 L650D005H02	SCREW-B, M4X5		4
30 U650S025H31	SCREW-P	M4*10	4
31 U656S263H23	T-SCREW	2-3*6	6
32 U656S164H24	T-SCREW	1-3*8	10
33 U656S164H24	T-SCREW	1-3*8	5
34 U656S263H23	T-SCREW	2-3*6	10
35 U669S074H09	SCREW-METAL	TRANS FIX, 3*5	2
36 U650S063H19	SCREW-B	M3*6	8
37 U656S164H23	T-SCREW	1-3*6	8
38 U685S100H08	E-RING	5	2
39 L683D011H01	WASHER POST		1
40 U680S322H03	WASHER TOOTHED 3		3
41 L670D004H01	NUT, 3020	M3.5	1
42 L670D002H01	NUT-GND, 3020		1
43 L840D009H01	COVER AC SOCKET	A, A1, C2, C3	1

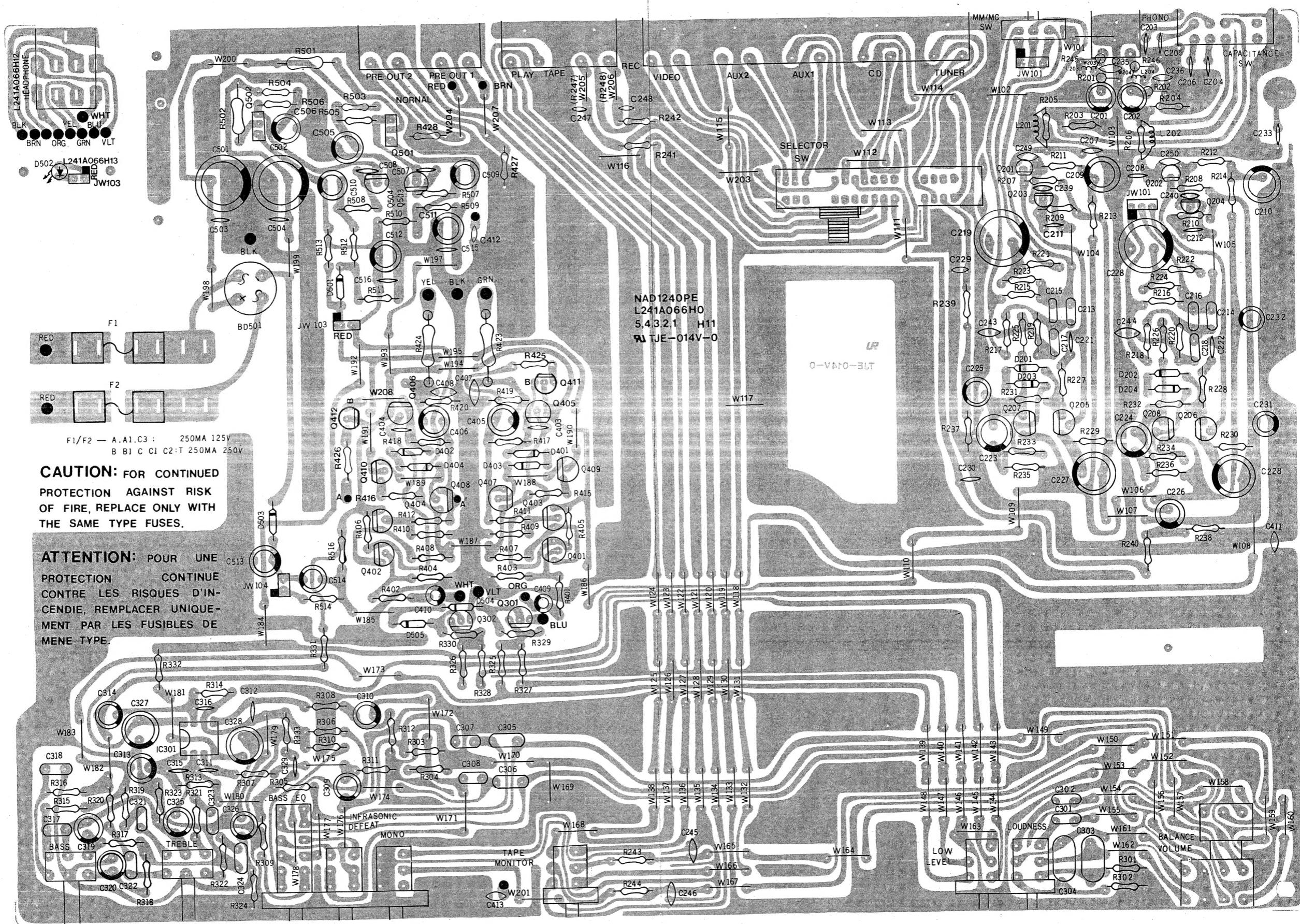
### EXPLODED VIEW



# NAD 1240 SCHEMATIC DIAGRAM



# NAD 1240 PCB COMPONENT LOCATION



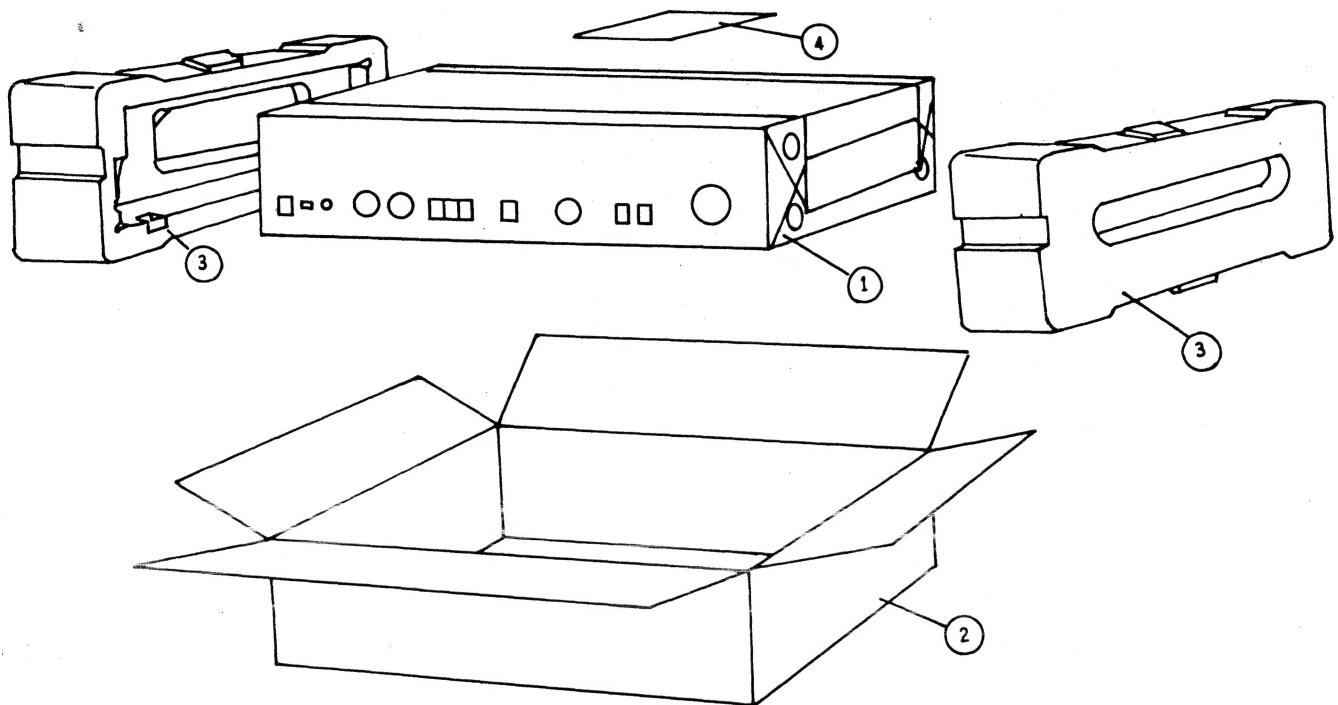
## NAD 1240PE PARTS LIST

PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY
U656S263H23	T-SCREW	2-3*6	2
L541D089H01	ANGLE-PCB	250MA-UL	1
U283S017H04	FUSE	250MA-SEMKO	2
U283S022H27	BAND	SW-SLIDE, CAPACITANCE	6
L431Y021H01	SW-SLIDE, CAPACITANCE	SW-SELECT, CD/PHONE/TV/VIDEO/AUX1/AUX2	1
L431Y021H01	SW-SLIDE, MM/MC	SW-SLIDE, MM/MC	1
L431Y012H01	SW-PUSH, LOW LEVEL LOUDNESS	10K	1
L432Y028H01	SW, TAPE-MONITOR	20KB+50KMN	1
L432Y056H01	SW, MONO/INF/BASS	BLK	1
L432645H01	SW-SLIDE, MM/MC	VR301 VR302	1
L121Y011H01	VR201	LEAD C413-CHASSIS	1
L443C530H04	LEAD C413-CHASSIS	LEAD C413-CHASSIS	1
L440Y016H01	PHONO, JACK-RCA	LEAD C412-CHASSIS	1
L4406018H01	TUNER/CD/VIDEO/REC/QUY1/OUT2	LEAD C412-CHASSIS	1
L4406018H01	AUX1/AUX2/PLAY	LEAD C412-CHASSIS	1
U243C530H07	CARBON, R211, R222	1/4W 15-J	2
L103Y214H02	R417 R418	1/4W 82-J	2
L103Y214H07	R231 R232 R333 R511	1/4W 100-J	4
L103Y214H09	R227 R228 R307 R308	1/4W 150-J	4
L103Y214H09	R225 R226 R321 R322	1/4W 180-J	4
L103Y214H10	R223 R224	1/4W 200-J	2
L103Y214H11	R213 R214	1/4W 220-J	2
L103Y214H14	R514	1/4W 390-	1
L103Y214H15	R229 R230 R243 R244	1/4W 470-J	4
L103Y214H16	R317 R318	1/4W 560-J	2
L103Y214H16	R209, 21.0, 239, 240, 327, 328	1/4W 680-J	6
L103Y214H17	R415 R416	1/4W 680-J	2
L103Y214H19	R241, 24.2, 319, 320, 401, 402	1/4W 1K-J	6
R507 R508	1/4W 1.2K-J	2	
R512 R3332	1/4W 1.2K-J	2	
R331	1/4W 1.5K-J	1	
L103Y214H21	R301 R302 R405 R406	1/4W 2.2K-J	4
L103Y214H23	R315 R316 R409 R410	1/4W 3.3K-J	4
L103Y214H25	R207 R208 R513	1/4W 3.9K-J	3
L103Y214H26	R219 R220	1/4W 4.0K-	2
L103Y214H27	R211 R212	1/4W 4.7K-J	2
L103Y214H28	R233 R234 R235 R236	1/4W 5.6K-J	4
L103Y214H29	R325 R326	1/4W 6.8K-J	2
L103Y214H31	R309 R310	1/4W 10K-	2
L103Y214H31	R403 R404 R419 R420	1/4W 10K-J	4
L103Y214H49	R219 R220	1/4W 10K-	2
L103Y214H53	R411 R412 R590 R510	1/4W 15K-J	4
L103Y214H56	R407 R408	1/4W 27K-J	2
L103Y214H59	R215 R216	1/4W 39K-J	1
L103Y214H38	R323	1/4W 56K-J	4
L103Y214H40	R203 R204 R305 R306	1/4W 56K-J	2

PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY
L851D070H01	COLOR CODE TAG	1	
L84D009H01	COVER-AC SOCKET	1	
L242Y501H01	POWER-CORD	1	
U242C872H06		1	
U242C809H19	POWER-CORD	1	
L242C103H01	AC-SOCKET	4	
L242C809H19	FRAME-L	3	
L243C091H10	WASHER-TOOCHED	TRANS FIX, 3*5	2
U68GS322H03	SCREW-METAL		
U66S074H09	CONNECTOR-SHAFT		
L550D078H01	TRANS-POWER, A2		
L350Y049H01	TRANS-POWER, A1		
L350Y050H01	TRANS-POWER		
L350Y051H01	TRANS-POWER		
L350Y052H01			
L547B009H02	CHASSIS-MAIN		
L550D036H01	SHAFT-ROTARY		
L550D022H01	GUIDE-SHAFT		
L550D037H01	CONNECTOR-SHAFT		
L550D037H02	FELT RING		
U685S10H08	E-RING	5	
U650S051H19	SCREW-B, SW*8	M3*6	8
L542Y052H01	T-SCREW	2-3*6	6
L432Y035H01	SW-POWER		1
L532Y034H01	C-CERAMIC, C517	400V 472M	1
U140Y007H07	ORG		1
L243C083H24	LEAD POWER SW		1
L56S263H23	POWER SW		1
L432Y063H23	CABINET-BOTTOM		1
L580B004H01	COVER-PVC		1
L84D010H01	LABEL-WARNING		1
L551D071H01	FOOT RUBBER, 12-1543		4
L739D006H01	STOPPER-WASHER	M4*10	4
U665S025H31	SCREW-P	2-3*6	6
U655S263H23	T-SCREW		1
L851D056H01	LABEL-QA		1
L552D015H02	CUSHION-PCB		1
L552D015H01	LABEL-VOLTAGE		1
L70A016H02	PANEL-FRONT		1
L704D061H01	KNOB-PUSH		6
L704D061H02	KNOB-POWER		1
L704D062H01	KNOB-VOLUME		1
L704D065H01	KNOB-BALANCE		1
L704D064H01	KNOB-ROTARY		1

PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY
L103Y214H44	R313 R314	1/4W 120K	2
L103Y216H75	R217 R218	1/4W 120K	2
L103Y214H46	R311 R312	1/4W 180K-J	1
L103Y214H53	R516	1/4W 680K-J	1
L103Y214H47	R237 R238	1/4W 220K-J	2
R303 R304		1/4W 1M-J	2
L140Y0203H11	C-CERAMIC, C403	50V 10D	2
L140Y0203H19	C507 C508	50V 22J	2
L140Y0203H27	C311 C312	50V 47J	2
L140Y0203H29	C211 C212	50V 56J	2
L140Y0203H31	C221 C222	50V 68J	2
L140Y0203H35	C207 C208	50V 101J	1
L140Y0203H37	C203 C204	50V 121J	2
L140Y0206H05	C205 C206	50V 221K	2
L140Y0206H04	C329	50V 181K	1
L140Y0206H45	C503 C504	50V 473Z	4
L140Y0206H46	C315 C316	50V 104K	1
L172Y0230H04	C-PLOY, C301 C302	50V 182J	2
L172Y0230H05	C229 C230	50V 222J	2
L172Y0230H12	C215 C216	50V 822J	2
L172Y0206H16	C213 C214	50V 183J	4
L172Y0206H25	C307 C308	50V 104J	4
L172Y0206H26	C317 C318	50V 124J	2
L172Y022H03	C-ELECT, C227 C228	6.3V 220	2
L172Y022H14	C405 C406	10V 100	2
L182Y022H22	C225 C226	16V 10	2
L182Y022H38	C327 C328	25V 100	2
L182Y022H37	C223 C224	25V 47	2
L182Y022H34	C325 C326	25V 10	2
L182Y022H36	C209 C210	25V 33	2
L103Y022H27	R-CARBON, R205 R206	1/4W 4.7K-J	2
L103Y0217H03	R245 R246	1/4W 1.2K-J	4
L103Y022H20	R503 R504 R505 R506	1/4W 22K-J	2
L103Y022H35	R427 R428	1/4W 22K-J	2
L103Y0207H05	R-METAL, R501 R502	1W 22-J	2
L103Y007H16	R423 R424	1W 180-J	2
L103Y022H05	R425 R426	1/4W 100-J	2
L103Y022H49	R201 R202	1/4W 330K-J	2
L324Y022H38	R324	1/4W 39K-J	1
L103Y022H27	R246	1/4W 22-J	2
L103Y022H35	R503	1/4W 22-J	2
L103Y022H38	R424	1/4W 47-J	2
L103Y022H37	R202	1/4W 47-J	2
L103Y022H38	R203	1/4W 47-J	2
L103Y022H27	R204	1/4W 47-J	2
L103Y022H35	R205	1/4W 47-J	2
L103Y022H36	R206	1/4W 47-J	2
L103Y022H37	R207	1/4W 47-J	2
L103Y022H38	R208	1/4W 47-J	2
L103Y022H39	R209	1/4W 47-J	2
L103Y022H40	R210	1/4W 47-J	2
L103Y022H41	R211	1/4W 47-J	2
L103Y022H42	R212	1/4W 47-J	2
L103Y022H43	R213	1/4W 47-J	2
L103Y022H44	R214	1/4W 47-J	2

## PACKING DIAGRAM



## PACKING LIST FOR NAD-1240

ITEM	PARTS NO.	NAME	Q'TY
1	L871B003H77	OWNER'S MANUAL	1
2	L831D003H01	PE BAG	1
3	L813A010H01	POLYLON	2
4	L800D004H03	GIFT BOX	1